

## MAC CONTROLLER AND CLOCK SYNCHRONIZING METHOD FOR USE WITH THE SAME

### ABSTRACT OF THE DISCLOSURE

In a wireless local area network media access controller (MAC) disposed in a first node of a wireless local area network, a method is performed to synchronize the clock of the first node with the clock of a second node in the wireless local area network. When a request signal is asserted from the first node to the second node, a responsive signal packet containing a time stamp is asserted from the second node to the first node in response to the request signal. Then, the MAC tags a local time value to the responsive signal packet at the first node, and operates the time stamp and the local time value according to a control program to obtain a difference  $T$ , which is stored in a register of the MAC. Afterwards, at least one of the clocks of the first and the second nodes is adjusted to synchronize the clocks of the first and the second nodes according to the difference  $T$ .